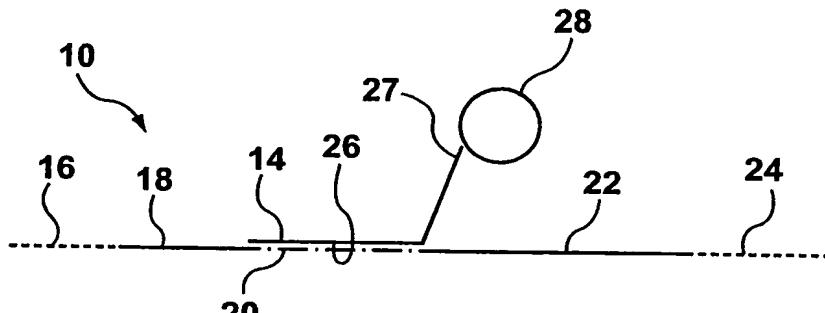
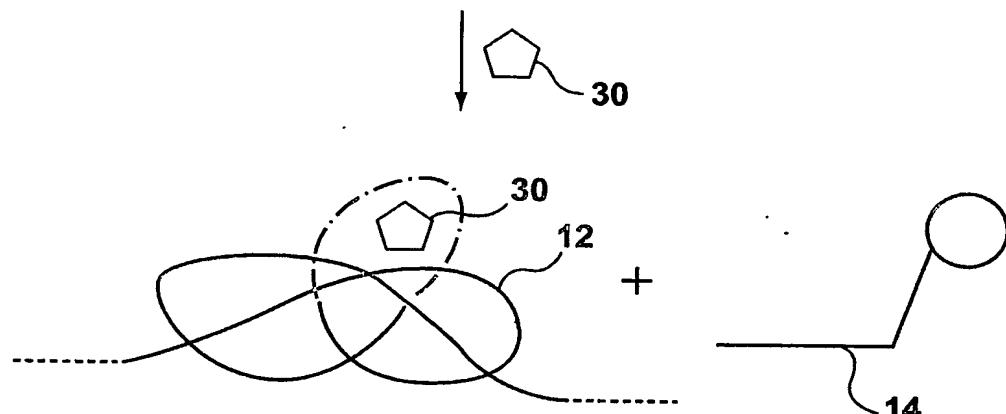
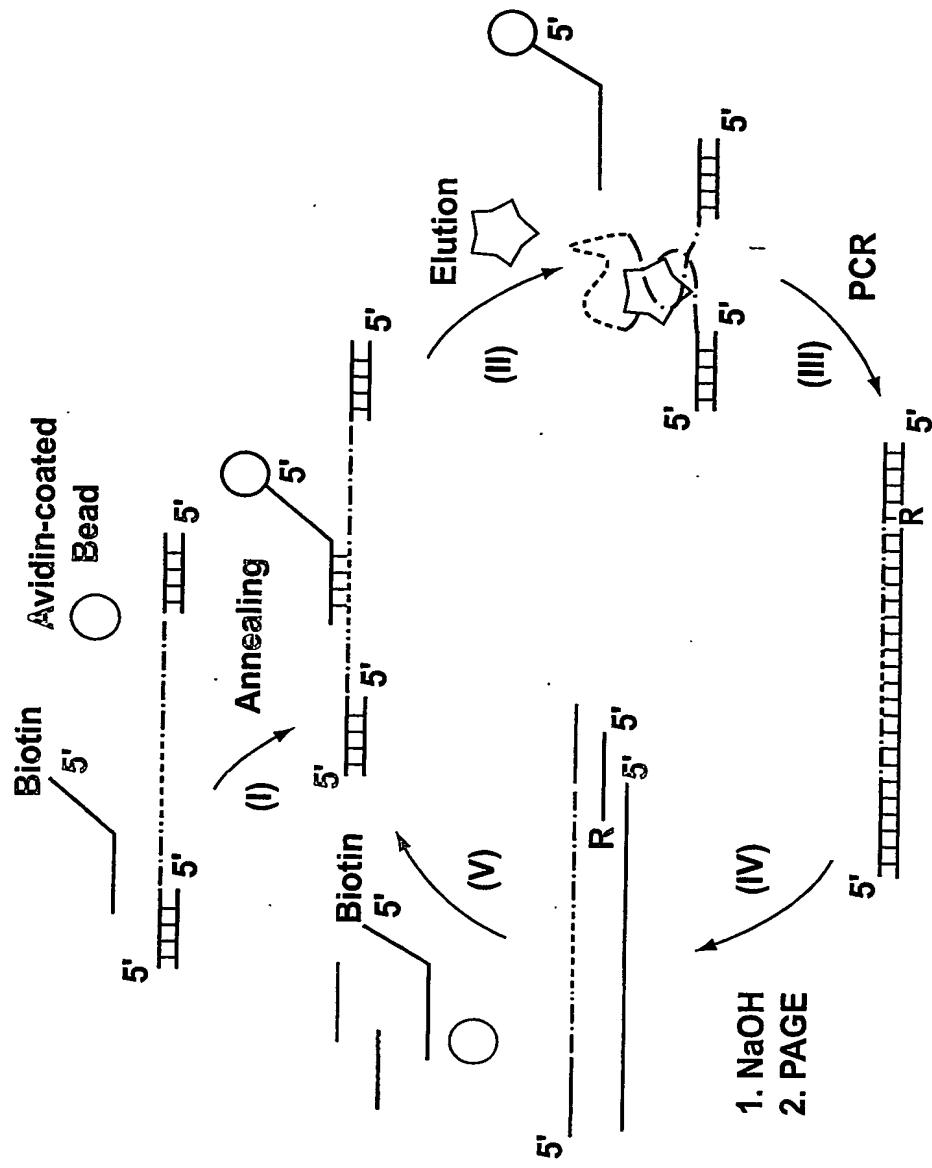


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**FIG. 1A****FIG. 1B****FIG. 1C**

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**FIG. 2**

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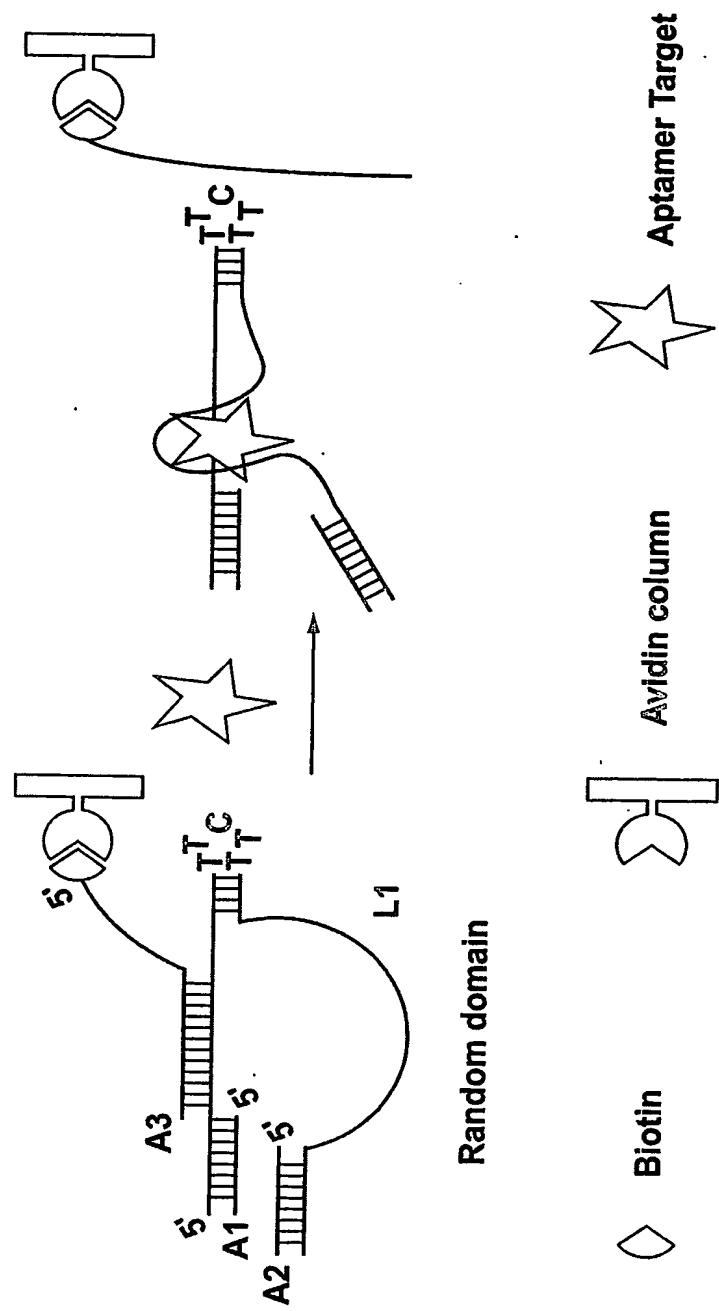
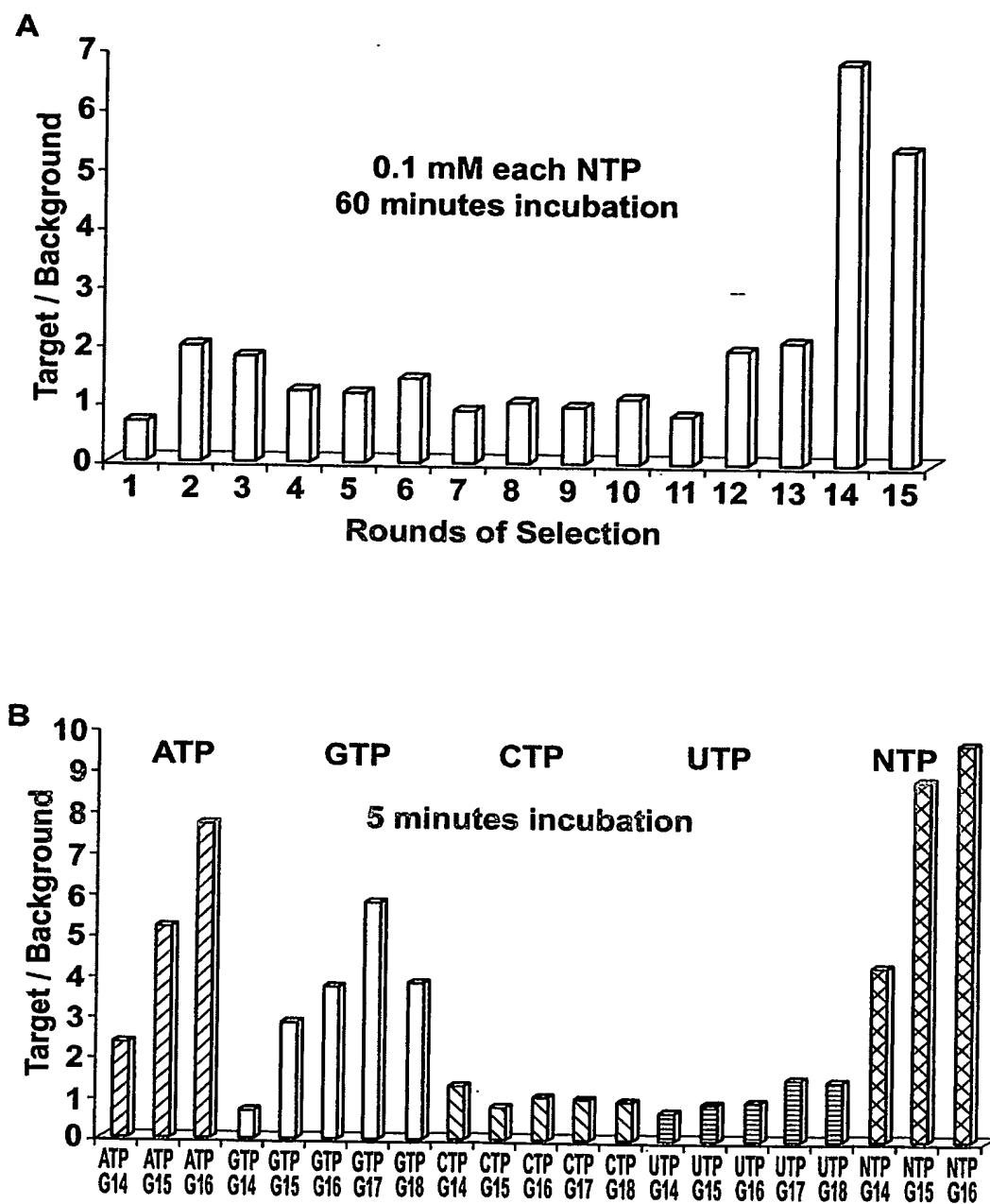


FIG. 3

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**FIG. 4**

A Library
AAGCTNNNNNNNCTGCAGCGATTCTGATCGNNNNNNNNNNNNNN

B ATP Aptamer

Class I

1ATP1 AxxCTTCGGAGGAGTTCTGCAGCGATTxCTTGATCGGGACGGGGGAGAAAGGTTT
 1ATP2 AxxCTTCGGAGGAGTTCTGCAGCGATxCTTGATCGGGACGGGGGAGAAAGGTGT
 1ATP3 AxxCTTCGGAGGAGTTCTGCAGCGATxCTTGATCGGGATGGGGAGAAAGGTTT

Class II

2ATP1 AAXCTTTGGAGGAGATCxGCAGCGATTCTTGATCGTCATCGGGGAGAAGTGATA
 2ATP2 AAXCTTTGGAGGAGATCxGCAGTGATTCTTGATCGCCATCGGGGAGAAGTGACA
 2ATP3 AAXCTTTGGAGGAGATCxGCAGCGATTCTTGATCGCTATCGGGGAGAAGTGATA
 2ATP4 AAXCTTTGGAGGAGATCxGCAGTGATTCTTGATCGCCATCGGGGAGAAGTGACA
 2ATP5 AAGCTTCGGAGGAGAACTGCAGTGACTGCACTTGATCGCATTTCGGGGAGAATGCC

Class III

3ATP1 AAGCTxGGAGGAGGAAACTGCAGCGATTCTGATCGGAAGGGTAACGGGGAGGCT
 Previously Selected ATP Aptamer
GCTTGAGGAGTATTGCCGGGGAAAGC

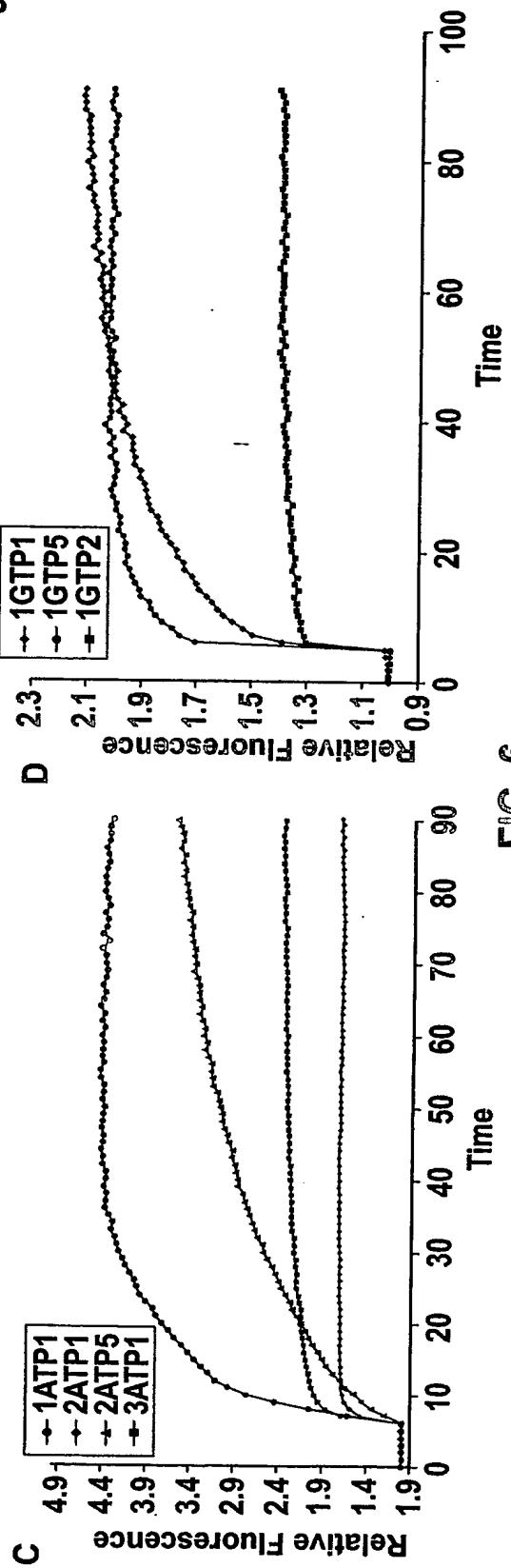
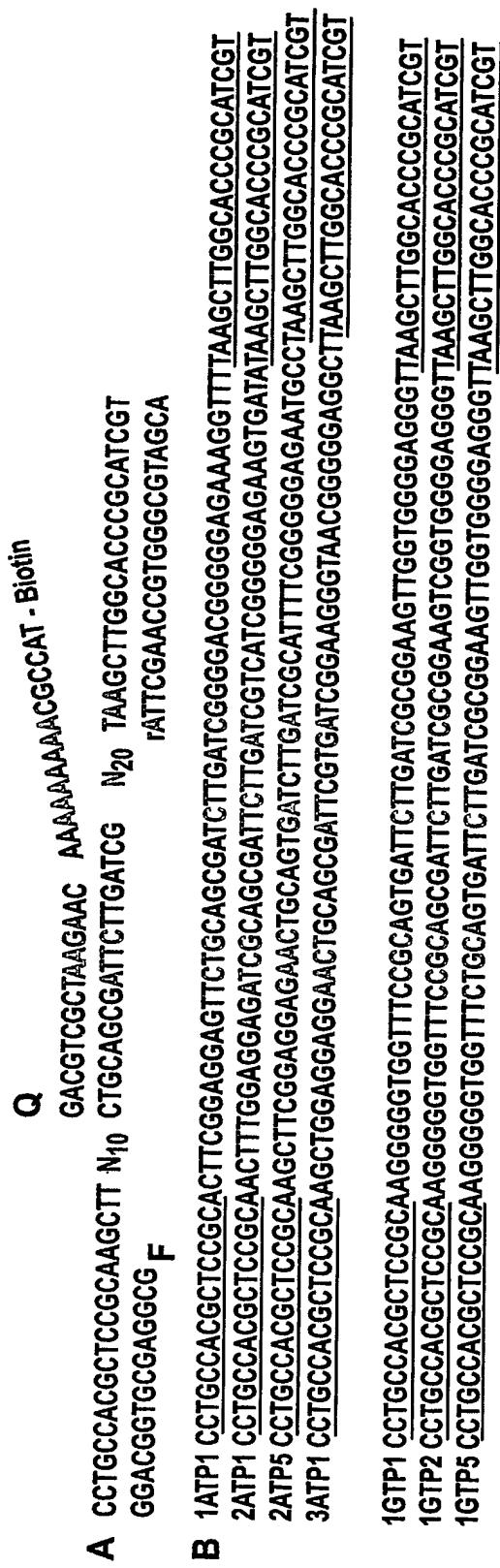
C GTP Aptamer

Class I

1GTP1 AAGxxxGGGGTGGTTTCCGCAGTGATTCTTGATCGGGGAAGTTGGGGGGGT
 1GTP2 AAGxxxGGGGTGGTTTCCGCAGCGATTCTTGATCGGGGAAGTCGGGGGGGT
 1GTP3 AAGxxxGGGGTGGTTTCCGCAGCGATTCTTGATCGGGGAAGTTGGGGGGGT
 1GTP4 GAGxxxGGGGTGGTTTCCGCAGCGATTCTTGATCGGGGAAGTTGGGGGGGT
 1GTP5 AAGxxxGGGGTGGTTTCTGCAGTGATTCTTGATCGGGGAAGTTGGGGGGGT

FIG. 5

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**FIG. 6**

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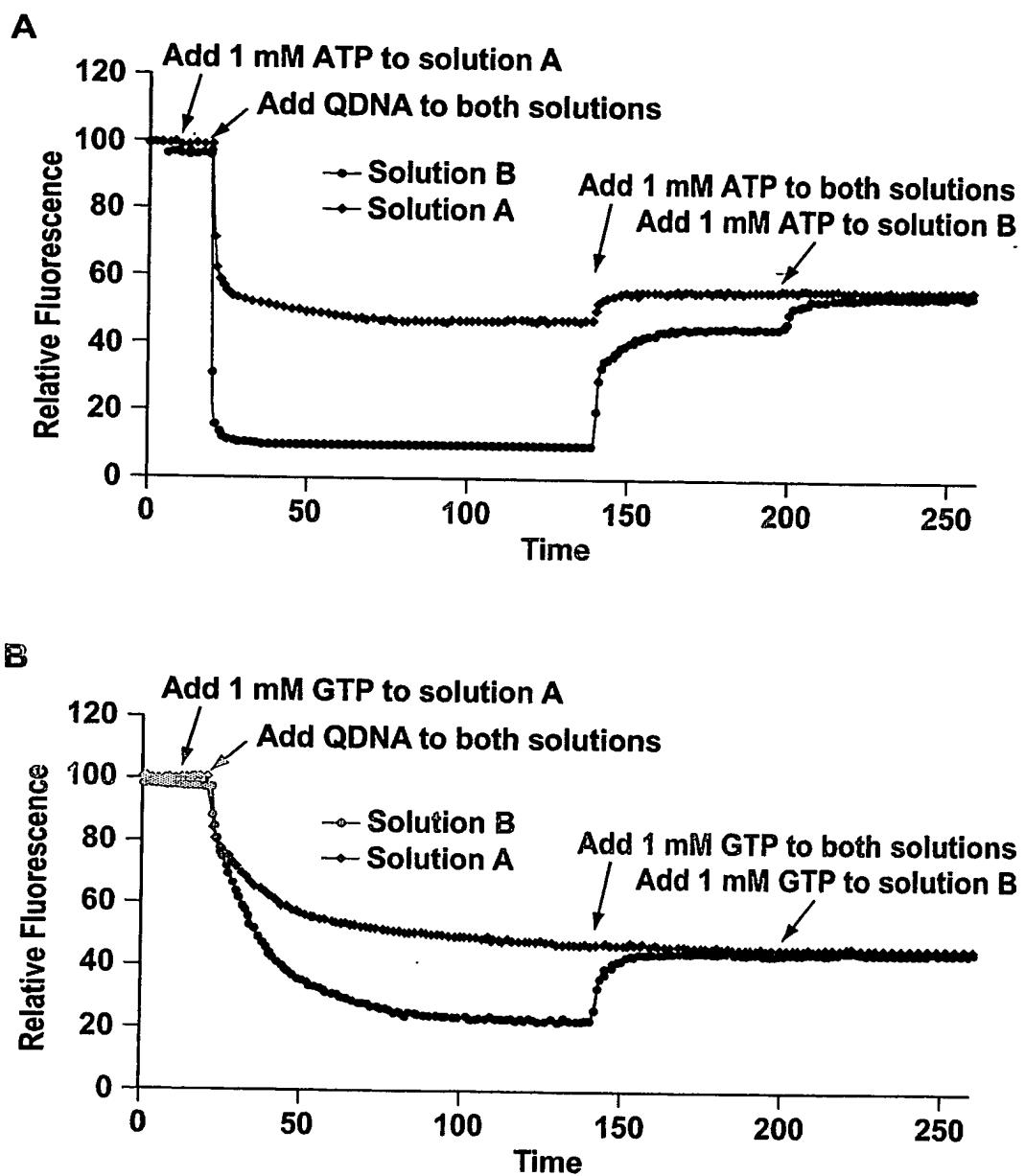


FIG. 7

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